

**Abstract**

Disclosed are a cathode for a battery and a lithium ion battery. The cathode for a battery comprises a metal hydroxide having a large specific surface area as a cathode additive. The lithium ion battery comprises a cathode, an anode and a non-aqueous electrolyte, wherein the cathode comprises a metal hydroxide having a large specific surface area as a cathode additive. When a metal hydroxide having a large specific surface area is used as a cathode additive,  
5 excellent storage properties of a battery at a high temperature can be obtained, even if the metal hydroxide is used in a small amount.  
10